

**Notice of Allowability**

Application No.

09/852,317

Examiner

Hanh B Thai

Applicant(s)

CHA ET AL.

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2161

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed June 1, 2004.
2. ☒ The allowed claim(s) is/are 1-9,11,14 and 20.
3. ☒ The drawings filed on 08 May 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

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This is in response to amendment filed June 01, 2004.

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments, filed June 01, 2004, with respect to claims 1-9, 11, 14 and 20 have been fully considered and are persuasive. The rejection of the claims 1-9, 11, 14 and 20 has been withdrawn.

### ***Allowable Subject Matter***

2. Claims 1-9, 11, 14 and 20 allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent claims 1, 5 and 20, the prior art fails to disclose or suggest the claimed provision of transforming a natural language query sentence inputted from a user to a conceptual graph depending on the standardized formats of sentence structure including semantic relevance ( $S(x, y)$ ) is a distance from a node  $x$  to another node  $y$  in the thesaurus system and can be expressed as follows.

$$S(x, y) = 1 / (1 + d(x, y))$$

where  $d(x, y)$  is the distance from the node  $x$  to the node  $y$  in the thesaurus system, is 0 if the  $y$  is one of lower nodes and is computed as the number of edges between the nodes if otherwise as claimed in conjunction with remaining claims provisions.

3. The dependent claims, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Other Prior Art Made of Record***

1. Roux et al. (US 6,678,677 B2) discloses apparatus and method for information retrieval using self-appending semantic lattice.

2. Budzinski (US 5,715,468) discloses a memory system for storing and retrieving experience and knowledge with natural language.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure.

***Point of Contact***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh B Thai whose telephone number is 571-272-4029. The examiner can normally be reached on 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh B Thai  
Examiner  
Art Unit 2161

January 7, 2005

  
**UYEN LE**  
PRIMARY EXAMINER